INDEX TO VOL. IV. OF THE CULTIVATOR.

A bad practice commented on, ...Page 73
Acknowledgement of seeds, &c..... .... 13, 68
Advantage of cutting grain early, ... 30
Address of J. Buel, before the Berkshire Agricultural Society, ... 144, 159
Address to the friends of agriculture, ... 200
Advantages of working oxen on farms, ... 170
Agriculture of Md. propositions for amending, 13
of Pennsylvania, remarks on,..... 110
of Kentucky, rapidly improving,..... 159
should be patronized by government, 113
Convention, State, its proceedings,.. 22
Ball's speech in, ... 53
Viele's do 102
notice of the approaching one, 157
Society, State, proceedings of, in 1837, 25
address of Dr. M'Naughton before, 117
School, advantages to be derived from, J. P. Beekman, ... 33
notices of correspondents in relation to,..... 35
Journals, their importance, N. Ewing, 39
new ones noticed,..... 82, 162
education in France, patronized by government, ... 51
its importance demonstrated,.. 170
premiums in Massachusetts,..... .. 81
surveys, their importance to husbandry,..... ..... 112, 175
report, for 1837,..... 173
and horticultural society at Skaneateles, a summary of its proceeding—J. Canning Fuller,..... . 18
American society for the promotion of useful knowledge,..... 45
Institute, resolutions of the,..... 90, 177
Angle-worms, inquiry how to destroy,..... 52
Artesian wells, how bored,..... 52
Apple, Siberian crap, notice of its properties,.. 63
Apples, constitute a good food for poultry,.... 144
their utility for farm stock,..... 150, 164
seedless, in Illinois, G. Churchill,..... 165
Anti-cattle choker, by P. Wingate, ... 67
by J. Conant,..... 80
Arbutus, its culture recommended by Agricola, 86
An American sirocco described, J. Dille, ... 101
Army worm, its ravages, J. R. Porter, ... 116
A republican sentiment of Dr. Channing,..... 131
A synopsis of late improvements in agriculture, 171
Barley, hints on its culture, ... 45
Beans, an excellent mode of curing, S. Robinson, ... 147
Bee-moth, successful modes of escaping, 170, 185
Berkshire cattle-show noticed,..... 158
Beet sugar, Mr. Church's pamphlet on, noticed, 11
report on, in the royal society of agriculture in France,..... ..... 18, 40, 57
Beet culture, its profits stated, ... 50
remarks on, W. Kenrick, ... 21
Boots and shoes, directions for rendering water-proof, ... 11
Boston asylum and school farm, an excellent institution, ... 12
Brewers' grains,..... 189
Bread, economical suggestions in regard to,.... 37
various modes of making, ... 144 198
Blight in pear trees, premium of $500 for a preventive, ... 47
opinions as to the mode of preventing, ... 159, 177
Buckwheat straw, valuable for cattle, if well saved, E. L. Dudley,..... 55
Breeding, Cooper's two rules in, ... 80
Bloody murrain in cattle, directions for curing, J. J. Deming,..... 83
Bone manure, inquiries in relation to, L. Foster, 101
facts and experiments in relation to, 127
Butter, directions for making, J. Smealle, ... 134
Botts in horses, mode of destroying, J. Hart,.. 150
Barn and out-buildings, plan of, S. W. Jewett, 102
G. Johnson,.. 193
Cattle, Ayreshire, described,..... 81
Devons noticed and figured, ... 98
improved short horns do 115
experiments in feeding, in Scotland, ... 129
sale of, at Powelton,..... 139
cure for various diseases in, P. L. Evans, 164
food, advantages of cutting, ... 9
relief for, when choaked or hoven,. 199
Canada thistles, how destroyed, J. Ormsby,.. 52
Cheese, mode of making, A. Petrie, ... 54
J. Smealle,..... 85
Prof. Low,..... 53
Canals in New-York, ... 196
Cheese-press, J. Tower's iron one commended, 132
Corn, Baden variety, how improved,..... 8
Lake Superior, rec'd from S. Robinson,... 182
Corn, great profit of H. G. Bowers' crop, ... 15
several varieties experimented upon, D. J. Dodge, ... 148
crop, directions for managing, ... 29
its prospects, 110—its products, ... 174
great crop raised by W. Miller,..... 165
H. Hopkins,..... 197
bread, directions for making, &c..... 83, 117
Cellars, how ventilated in Germany, ... 82
Chess, evidence of its originating from wheat, 133
Chillblains, remarks on,..... 202
Churning, use of salæratus in the operation,.. 150
Conclkin's press harrow, figured, as improved, 176
Cultivator, its circulation in different states, 5 189
its terms for volume V. and the reasons therefor,..... 157
Van Bergen's described, ... 34
Cob-cracker, bark mill employed as such, .. . 9
Common school libraries,..... 190
Common schools, great legislative bounty to, misapplied, ... 10
those of Connecticut and Massachusetts contrasted, ... 11
Cures, for the scab in sheep, R. Wheeler,..... 36
for slabbering in horses, T. Paine,..... 36
for the hydrophobia,..... 123
Cut-worm, destroyed by lime, A. Day,..... 47
its habits described, ... 71
and curculio, by J. E. Muse,..... 89
Cotton seed oil, its value to the nation, ... 51
oil cake, its value as cattle food, J. B. J..... 69
Cotton, queries in relation to its culture, ... 163
Crops, and soils to which they are adapted,... 62
in Suffolk county, D. F. Wells,..... ... 135
in Seneca, J. Smith, ... 165
Churn, spring-pole and treddle, J. Low's,.... 65
Currant wine, approved mode of making, ... 83
Chicken, its mode of developement in the egg, 85
Clay farms, how managed by Greg,.. 88
by Beatson,.. 104
Contrast between old and new husbandry, ... 93
Coal-ashes, their value as a manure, ... 93
Clover-hay, how made in Scotland,..... 129
Clift, L. on managing calves,..... 143
Composts, how made with peat earth,..... 175
experiments with,..... 175
Draining, on its utility, A. O. Spoor,..... 38
remarks on, J. B. Bowers,..... 53
general principles of, explained, 151—bogs and meadows, 151—hills and sloping grounds, 152—soils composed of alternate beds of clay and sand ridges, 163—clay soil, ... 169
inquiries relative to, L. Barber,..... ... 183
tile, made by Jackson in Albany,..... . 159
Drains, various modes of constructing, ... 186
Dutton corn, notice of it, by J. W. Snyder,... 117
its early maturity and yield, in Pennsylvania, W. P. Hunt,..... 143
its estimate in Ohio, M. Mendenhall, 165
Devon cow, winter products of one,..... 62
Deeds and mortgages, required to be recorded, 68
Diseases of cattle, J. Smealle, ... 68
Digest of the principles of agriculture proposed, W. Johnson, ... 69
Dogs, how cured of sheep-killing, G. D. Avery, 81
De Labigaire, P. on mulberry hedges, with directions for their management, 82—directions for sowing mulberry seed, 96—experiments with lucern,..... 82
De Witt, Simeon, extracts from his address in 1799, ... 194
Effects of cropping,..... 94
Experiments in manuring corn,..... 97
with gypsum,..... 97
in harvesting corn, ... 142
of D. Bradley, with seeds, ... 162
Economy of feeding,..... 166
Extent and effect of agricultural improvement in Scotland, ... 175
Education in Austria, ... 196
Facts in agricultural science,..... 10
Farm accounts, their importance, and mode of keping pointed out,..... 37
Farmers' clubs, ... 194
Farm implements, for sale by W. Thorburn,.. 33
exhibited before the committee of the State Ag. Society,.... 99
Facts worthy of consideration,..... 50
worth remembering,..... 123
Farming, in the valley of the Wabash, E. Ellsworth, ... 134
Farming capital necessary,..... 125
Fat mutton, from T. Dunn's farm,..... 37
Fat animals and large crops, result alike from abundance of proper food,..... 78
Fallowing, comments upon, ... 73
Fence posts, how preserved, ... 200
Flax crop, its products, T. S. Knapp, ... 86
Floral exhibition at Ghent,..... 68
Fresh air, indispensable to health, ... 65
Fruit blossoms, mode of preventing abortion of, 51
Frontier farming, a Jefferson farmer, ... 40
Force of prejudice,... 37
Flavor and color, in fruits, depend on the action of light, ... 10
Garden, scientific principles of transplanting, 6; of striking; of grafting; transporting trees, 6; pruning, 7, binding of the graft, 7; rules and directions for managing, ... 30
Grain, hints on the growth of 12; chemical composition of, 12; remarks on seed, time and depth of sowing, quantity of seed, &c. 13; product in flour, of different kinds,..... 13
Grape vines, mode of training, E. Tomlinson, 18
N. Darling,... 183
how successfully pruned,..... 131
produce of, in Ohio,..... 177
Glossary of chemical terms, ... 26
Gypsum, inquiries relative to, C. L. Dudley, 54
benefits experienced from its use, A.... 200
Grasses, kinds adapted to the south-west, W. A. Stone, ... 116
artificial, the basis of good husbandry,.. 73
General habits of insects,..... 89
Grain-worm, its extension west and south,. 97 189
queries in relation to, ... 109
communication relative to, A. Carter, 162
A. Cowley, 162
Good farming in Virginia, J. H. Cocke, ... 136
Great corn crop, by Mess. Stephens & Ludlow, 143
Geology for schools, Prof. Mather's noticed, .. 177
Grubs, mode of destroying, J. Field, ... 183
Hay, more profitably fed than sold, ... 69
on the best time for cutting,..... 130
press, its advantages stated, A. Van Bergen, 12
Lampman's described,..... 38
making, improved mode of, T. S. Knapp, 13
hints upon, ... 98
Heat, average temperature in the earth below frost,..... 10
radiation of, explained, ... 10
Harrowing grain, in spring, recommended,.... 51
Harrows, their utility in husbandry, ... 59
Harrow, E. Wilbur's described, ... 133
How to improve a poor farm, R. A. Leonard,. 36
Hop culture, S. Cheever, ... 33
Hoven in cattle, cure for, J. Daniels, 52; G. W. Forman, 132; W. Keese,..... 52
Horn oil, how cured, J. Grant, ... 52
Horse-power, Gleason's described, ... 52
Hints on diet, A. Wood, jr..... 84
and domestic economy, ... 178
for the piggery,..... 194
in regard to sheep, ... 190
Hollow-horn, mode of curing, J. W. Gray, ... 100
Havens, J. on the white thorn hedge,..... 112
Horses, cholic in, how cured,..... 132
directions for curing sundry diseases in, S. Robinson, ... 132
scratches in, how cured,..... 200
Hominy, claimed as a yankee contrivance, C. Butler, ... 134
Hedging, whole process described, J. H. Chiswell, ... 181
Italian rye grass, withstood the winter, ... 34
Illinois, some account of, W. Gould, ... 36
Improvement of the soil,..... 59, 71
Industry, the best resort in misfortune,. 97
Indolence the parent of vice, ... 131
Influence of education upon agricultural improvement, ... 175
Incombustible wash and whitewash, ... 179
Kent, Chancellor, notice of his address, in 1796, 112
Kyanizing wood, preserves it from decay, ... 131
process described, ... 176
Kentucky farming, F. E. Becton,..... 150
Live fences, the materials to be employed for, 126
mode of procuring plants, ... 176
preparation of the ground and planting, 192
managment of the hedge, ... 192

INDEX TO VOL. IV. OF THE CULTIVATOR.

Live fences, sweet brier recommended as suitable for, R. F. Gourlay, ... 148
observations upon, J Dille, ... 165
directions for growing, J. H. Chiswell, 181
Long manure, why adapted for hoed autumnal crops, ... 9
its advantages to the corn crop, N. Chittenden, ... 16
estimate of its value to the corn crop, ... 32
Lime, caustic, in what cases to be applied, ... 10
its effects on wheat, J. Shields, .. 70
rules for applying, ... 194
Livingston, R. L. experiments with gypsum, 46; extracts from his address in 1793, 63; letter to A. Young, 96; on the effects of shade trees on crops, 96; on the excretory duct of the feet of sheep, ... 194
L'Hommedieu, Ezra, on augmenting manures, 49; on sea-weed as a manure, and on the destruction of hedges, 82; on raising clover seed, 47; on improving land by clover, on raising calves, and on freeing seed grain from oats, 82; on various manures, 130; on the fattening of hogs, ... 131
Leached ashes, their utility as a manure, ... 93
Manure, how much should a farm produce ?.. 48
estimates of Dr. Coventry and others,.. 48
should be covered in fields with earth,.. 9
Mulberry, the Brussa recommended, A. Spencer, 14
should not be defoliated too often,. ... 9
Massachusetts encourages agricultural societies, 37
Memoirs of the board of agriculture favorably noticed, ... 51
Mowing machine, Ambler's, its properties described, ... 51
Wilson's, its performance,.. 115
Mohawk valley, its agriculture improving,.... 80
Monies purloined from the mail, ... 80
Mullein, said to drive mice from granaries and barns, ... 32
Meadow and pasture grasses, J. Finch,. 51
Mildew on gooseberry, how prevented,... 95, 159
Millet, its culture, product and use,.... 114
Mile, its length in yards, in different countries, 115
Mixed husbandry, its advantages,.... 129
Mitchell, S. L. notice of his address before the Agricultural Society, ... 143
Miller's machine for unloading hay,.... 182
Mistaken notions of agricultural employment, 190
Miscellaneous notices, ... 164
Nature and uses of the products of vegetation, 120
New-York legislature, remarks upon their proceedings, ... 62
Nutritive principle of animal food in grain and roots, ... 78
New substitute for the mulberry, J. Hathaway, 86
Nutmeg potatoes received from S. Robinson,.. 101
Notice of the farm of J. F. Edmunds, ... 120
New-year remarks, ... 173
Notices to correspondents—in regard to lime; to white turkeys and Westphalian geese; to Williams' ploughing machine, and to White's root slicer, ... 000
Oats, heavy varieties noticed, ... 32
hints on their culture, ... 46
Outline of the first principles of horticulture—general nature of plants, 74; the root, the stem, 75, 90; leaf-buds, leaves, 91; flowers, 105; sexes and fruit, 106; seed, 121; sap, air and light, 122; perspiration, cuttings, scions, 138; transplanting, ... 139
On feeding milch cows with ruta baga, C. N. Bement, ... 199
On the decay of the apple tree, by W. Denning, 112
Our condition, ... 97
Over-trading, a national fault, ... 128
Of nutritive manures, from Chaptal, ... 136, 152
On the means of improving our agriculture,... 174
Opinions of wise men, ... 178
On promoting the collection and diffusion of useful knowledge, ... 200
Peat earth and peat ashes, as manures, 157, 174, 190
Periodicals, their influence, ... 200
Premiums offered by the conductor, ... 5
to whom awarded, ... 189
by W. Garbutt, ... 48
Power-looms greatly abridge labor, ... 21
Potatoes, mode of growing in Virginia, ... 36
Rohan, and other varieties noticed, 142, 177
Potato-dropper, by a Montgomery subscriber, 22
Planting, inquiries relative to, L. Kelsey, jr.. 82
Philosophy of crosses, W. Gaylord, ... 36
Peripneumony in cattle, how cured, ... 79
Planting and hedging commenced in Missouri,. 95
Pigs fattened upon apples, C. Butler, ... 134
Profits of old and new husbandry contrasted,.. 141
Proposed improvement of the Cultivator, ... 157
Products of a Tennessee farm, ... 162
Profits of farming, E. Cornell, ... 180
Pudney's revolving horse-rake, ... 184
Poultry, remarks on raising, ... 192
Rural Library, a cheap and valuable publication, 13
Ruta baga, directions for raising, J. W. Lawton, 17
remarks on their culture, C. N. Bement, 179
E. Tilden's crop, ... 84
W. Taylor's crop, ... 165
J. J. Bullock's crop, ... 197
W. Cotton's crop, ... 197
Rollers, hollow wooden ones, how easily constructed, ... 34
recommended by Chaptal, ... 59
Rules for ploughmen, ... 66, 196
Rye, directions for its culture, ... 97
Rotation of crops, its advantages, ... 73
Root culture, extending among us, ... 78
its success with R. Harrison, jr..... 174
success of, ... 201
Relative value of grasses, by Rev. Dr. Muhlenburgh, ... 96
Rules for selecting sheep and beasts, ... 166
Salt, its effects on wheat, J. Shields, ... 70
Salting meats, directions for, ... 178
Saw-set, Stillman's, recommended, ... 98
Science of agriculture, ... 189
Seed-corn, objections to steeping, M. 56
remarks on steeping, D. L. Dodge,... 83
Seeds received from S. Robinson, ... 132
Seed grain, mode of steeping, R. Johnson, ... 66
Silk-spinner, Brook's, its advantages stated, 26, 31
culture, its prospects, W. Kenrick, ... 21
worms, mode of managing in Turkey, Agricola, ... 87
Sheep, Lincolnshire, recommended, L. D. Clift, 22
classed as short, long and middle wolled,. 48
Lincolnshire and Bakewell compared, as to fleece, L. D. C..... 146
Bakewell, weight of fleece in T. Dunn's flock, W. H. Sotham, ... 131
husbandry, soundness of wool, ... 27
barn, E. Tilden's, ... 84
School libraries in Massachusetts, ... 50
Smut in grain, may be prevented by salt and lime, ... 110
Smut in wheat, how prevented, ... 167
Starch and sugar, similar in their elementary matters, ... 12
Starch and sugar, quantity found in different vegetables, ... 12
Stall-feeding, its advantages over yarding, ... 36
Stump-extractor, inquiries for, ... 80
answers to, J. H. Drake, 100
E. Cornell, ... 114
Whitney's noticed, ... 146
Steam apparatus, recommended by A. Loomis, 116
improvements proposed, S. Hamilton, 149
suggested improvements in, R. L. Allen, ... 180
Sugar and gluten, constituents & food of plants, 10
St. Johnswort, how destroyed, T. Paine, ... 36
Spring wheat, recommended to be sown late, R. Wheeler, ... 36
Summer soiling, its advantages and disadvantages, ... 67
Swine, their good points described, ... 63
Soiling, its advantages, by Von Thaer, ... 80
Spelt wheat, its properties and habits, F. C. Speyerer, ... 116
Soils, argillaceous, how improved, ... 60, 71
alluvial, how preserved and enriched,.... 72
silicious, how improved, ... 72
their absorbent properties connected with fertility, ... 97
paring and burning, when beneficial and when hurtful, ... 80
Spot in spring wheat, J. Dudley, ... 149
Tall meadow oat grass commended, ... 96
Thermometers, scale of graduation, ... 33
Tooth-ache, how cured, ... 32
Turnip drill, Bement's, described, ... 42
hoe, J. Collins', noted, ... 64
Turnips, directions for their culture, ... 64
Theory of agriculture, ... 43
The harvest prospects, ... 45, 79
Thirty years ago, ... 50
Topping corn, occasions a loss of grain;.. 50, 142
The times, remarks upon, ... 61
Tomatoes, their medicinal properties, ... 62
Timothy sown with buckwheat, ... 112
The test of good farming, ... 162
Tide mills, inquiries relative to, ... 179
Usury laws prejudicial to agriculture, ... 21
Venice turpentine, used to destroy the worm in the head of sheep, N. Chittenden, ... 16
Vegetable matters, should ferment in the soil, . 32
Vitality of seeds, prof. Henshaw's experiments, 51
Water, its offices in vegetation, ... 73
how applied in irrigation, ... 73
Wooden rollers, cheap mode of constructing,.. 34
Weeds, mode of destroying, ... 37
Weddle's stock recommended, W. Garbut, ... 35
What is a useful education ?..... 77
White grub, mode of destroying, C. P. Kimball, 83
Worms, how destroyed, N. Blackly, ... 85
destroyed by fall ploughing, S. W. Jewett, 133
Wheat, the Italian and Siberian varieties distinct, ... 31
compared, T. Goodsell, 163
J. Hathway, 183
remarks on its culture, ... 34
winter, sown in Tennessee in spring,... 64
the spring varieties described, ... 110
winter varieties may be sown in spring,. 194
early May, sent by Gen. Cocke to the Conductor, ... 147
crop injured by blight, ... 109, 150
Wheat and wheat bread, ... 199
Wool, microscopic appearance of, ... 44
its fertilizing properties in the soil,..... 128
market, its prospects, by Otsego, ... 85
Wintergreen, its medicinal properties..... 67
Webster, N. on managing the potato crop, ... 143
Yellows in cattle, how cured and symptoms,.. 79

YOUNG MEN'S DEPARTMENT.

Advantages and pleasures of rural life,... 188
Conditions required for efficient respiration,... 75
Healthful recreation for young ladies, ... 48
Hints to young farmers, No. 5, culture of the mind, ... 27
No. 6, political duties, 92
Hints on diet, ... 28
Hints to mothers, ... 108
to parents and schoolmasters, ... 123, 139
Important requisites in a wife, ... 48
Influence of science and literature upon individuals, and communities, by Miss L. S. Smith, 106
Intemperance in dress, ... 48
Miseries of indolence, ... 172
Natural philosophy, mechanics, 171; hydrostatics, pneumatics, 172; acoustics, optics, ... 203
Rise and fall of families, ... 172
The husbandman, hints to the young of both sexes, ... 156
Winter evenings, ... 204

REFERENCE TO CUTS.

1—2 Potato dropper, ...Page 22
3 Silk spinner, ... 26
4 Graduated thermometers, ... 32
5 Van Bergen's cultivator, ... 34
6 Lampman's hay press, ... 38
7 Bement's improved turnip drill, ... 42
8-19 Microscopic appearance of wool, ... 49
20 Gleason's horse power, ... 52
21-25 Turnip culture, ... 65
26 Treddle churn, ... 65
27-28 Plough nozzles, ... 67
29 Draft of plough, ... 68
30 Ayrshire cow, ... 81
31 do. bull, ... 81
32 Sheep barn, ... 84
33 Saw-set, ... 98
34 Devon bull, ... 98
35 do. cow, ... 98
36 Plan of barn, &c. 102
37 Short horn bull, ... 115
38 do. cow, ... 115
39 Steaming apparatus, ... 116
40 Wilbur's harrow, ... 133
41-42 Illustrative of draining, ... 152
43-44 do. do. 167
45 do. do. 168
46 Conklin's press harrow, ... 177
47 Pudney's horse rake, ... 184
50-51 Poultry houses, ... 193
49 Bill or hedge hook, ... 192
48 Breast plough, ... 191
52-53 Syphon, ... 203